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S E C R E T 091830Z JAN 68 CITE LOGISTICS 3824

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1. HQS APPROVES DESIGNS AS SUBMITTED SUBJECT TO FOLLOWING COMMENTS WHICH ARE FURNISHED FOR EVALUATION AND INCORPORATION INTO DESIGN AS APPROPRIATE.

2. POWER PLANT EXPANSION:

A. DWG. 1178977 - NO CONDUIT SHOWN BETWEEN TRENCH UNDER SWITCHGEAR AND NEW TRANSFORMER STATION.

B. DWG. 1178977 - WILL GRAVITY DAMPERS BE SATISFACTORY DURING HIGH WIND CONDITIONS?

C. DWG. 1178977 - WITHIN THE LIMITATIONS POSED BY EXISTING CABLE TRENCH IN SWITCHGEAR ROOM, CONSIDER IT DESIRABLE TO PROVIDE WINDOWS OR OBSERVATION PORTS SO THAT OPERATOR CAN OBSERVE UPS UNIT, AND IF POSSIBLE, THE 235 KW UNITS FROM WITHIN SWITCHGEAR ROOM.

D. DWG. 1178979 - DOES CABLE TRENCH HAVE A DRAIN?

E. DWG. 1178983 - ENSURE THAT LIGHTING WILL ADEQUATELY ILLUMINATE FRONT OF CONTROL PANELS (SWITCHGEAR).

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CONSTRUCTION DIVISION

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F. DWG. 1178983 - ENSURE THAT CABLE TRENCH FRAME, CABLE TRENCH HANGARS, BATTERY CHARGER AND DAY TANK FUEL PUMP ARE GROUNDED.

G. KWG. 1178986 - CONCUR IN PROVIDING LARGER 167 DKV TRANSFORMERS. HOWEVER, IN PROVIDING LARGER TRANSFORMERS, SHORT CIRCUIT CURRENT CAPACITY OF SYSTEM WILL BE HIGHER. THEREFORE BREAKER INTERRUPTING CAPACITY SHOULD BE CHECKED, ALSO BREAKER FRAME SIZES, BUS SIZES, METER RATINGS, WIRE SIZES, ETC., TO ENSURE ADEQUACY.

H. DWG. 1178982 - REGENERATOR FUEL SUPPLY SYSTEM, REVISE TO PROVIDE SEPARATE SUPPLY AND RETURN LINES TO EACH ENGINE GENERATOR UNIT, WITH SEPARATE INTAKES FROM DAY TANK EACH HAVING A FOOT VALVE OR CHECK VALVE. SUPPLY LINE SHOULD BE TAKEN FROM TOP OF DAY TANK WITH INTAKE EXTENDING DOWN TO APPROX TWO INCHES FROM BOTTOM OF DAY TANK (OR MAKE OTHER SUITABLE PROVISION TO PRECLUDE FLOODING OF ENGINES BY GRAVITY FLOW OF FUEL THROUGH INJECTORS). SIGHT GAUGE AND SUPPLY LINE SHOULD BE ARRANGED SO THAT DAMAGE TO SIGHT GLASS WILL NOT REQUIRE CLOSING THE SUPPLY LINE.

3. AIR CONDITIONING-RECEIVER BUILDING:

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A. DWG. NO. 1156132 - PROVIDE VALVES TO ISOLATE VARIOUS BRANCHES OF CHILLED WATER LINES TO FACILITATE OPERATION OF PORTIONS OF SYSTEM DURING REPAIRS OR OTHER SHUTDOWN (SEE MARKED PRINT).

B. DWG NO. 1156133 - AHU 4 AND 5 SHOULD NOT HAVE TO RUN CONTINUOUSLY TO SUPPLY ROOM D DUE TO ELECTRONIC LOAD REDUCTION. AIR HANDLER CAPACITY SATISFACTORY, HOWEVER, CHECK MARKED DRAWINGS AND/OR PREVIOUSLY SUBMITTED DRAWING FOR WIDER AND IMPROVED AIR DISTRIBUTION INTO AREA D. NORMALLY AHU 4 WILL RUN CONTINUOUSLY AND EVERY OTHER AIR SUPPLY REGISTER WILL BE CONNECTED TO AHU 4.

C. DWG. NO. 1156133 - ASSUME YOU WILL ALLOW SUFFICIENT SPACE BETWEEN MECHANICAL ROOM AND CONDENSER FOR REMOVING AND INSTALLING AHU 1.

D. DWG. NO. 1156133 - CONSIDER CONDENSER NOISE TO BE PICKED UP IN OFFICE AREAS. IF NECESSARY, INSTALL WALL PERPENDICULAR TO BUILDING ON SOUTH SIDE OF CONDENSERS TO DAMPEN OR ATTENUATE CONDENSER NOISE.

E. DWG. NO. 1156134 - SEE MARKED DRAWING FOR REVISION TO SUPPLY DUCT ON AHU 3.

F. DWG. NO. 1178972 - RELOCATE THERMOSTAT TO A COLUMN IN ROOM D. IT IS PRESENTLY IN EXHAUST OF HEAT PRODUCING EQUIPMENT.

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G. SINCE CHILLERS ARE CONNECTED IN PARALLEL INSTEAD OF IN SERIES, CONSIDER IMPORTANCE OF CHILLED WATER CONTROL WHEN ONE COMPRESSOR IS NOT OPERATING DUE TO REDUCED LOAD OR BREAKDOWN.

H. CONSTRUCTION CONTRACT SHOULD INCLUDE MATERIAL FOR TEMPORARY PARTITION IN ROOM D WHILE NEW WALL IS BEING INSTALLED. WE ASSUME BUILDING OCCUPANTS WILL INSTALL THE TEMPORARY PARTITION, IN VIEW OF SECURITY CONSIDERATIONS.

I. DWG. NO. 1156132 - PROVIDE STRAINER IN CHILLED WATER SUPPLY LINE FEEDING HEAT EXCHANGERS IN ROOM E. HEAT EXCHANGER MANUFACTURER RECOMMENDS THAT PARTICLE WITH AVERAGE DIAMETER GREATER THAN 0.01 MM MUST BE REMOVED. SINCE THE ABOVE RECOMMENDATIONS WOULD BE DIFFICULT TO ACCOMPLISH WITH THE PROPOSED CHILLED WATER SYSTEM, 0.1 MM APPROX WOULD BE ADEQUATE. THERE CAN BE A BYPASS AROUND STRAINER WITH A BYPASS VALVE (PRESSURE CONTROL) TO PROVIDE CONTINUOUS WATER FLOW SHOULD THE STRAINER BECOME CLOGGED. ALTERNATE SOLUTION IS TO USE THE EXISTING FLOW AND TEMPERATURE ALARM SO THE STRAINER BYPASS CAN BE OPENED WHEN REQUIRED. THE COMPLETE CHILLED WATER SYSTEM SHOULD BE THOROUGHLY FLUSHED BEFORE THE CHILLED WATER IS CIRCULATED THROUGH THE HEAT EXCHANGERS.

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4. CONTRACT SPECIAL PROVISIONS SHOULD PROVIDE FOR PHASING OF CONSTRUCTION THAT WILL PERMIT UNINTERRUPTED OPERATION TO MAXIMUM POSSIBLE EXTENT.

5. MARKED DRAWINGS CLARIFYING ABOVE MECHANICAL COMMENTS POUCHED UNDER SEPARATE COVER. TRANSMITTAL MANIFEST NO. 0553115.

6. DESIGN SHOULD BE COMPLETED AND PROJECTS ADVERTISED AS PROMPTLY AS PRACTICAL. PLS OBTAIN FROM [REDACTED] AND FURNISH HQS A 25X1A FINAL COST ESTIMATE AS SOON AS AVAILABLE TO PERMIT REVIEW OF FUNDING STATUS.

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